

# Ethane Import Tank, Seal Sands



## ETHANE IMPORT TANK



Location  
**Middlesbrough**

Client  
**Balfour Beatty**

Value  
**£4.5 million**

Duration  
**52 weeks**



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# PROJECT DESCRIPTION

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This 77,000 cubic metre containment tank was an upgrade to the existing 223-acre Olefins 6, Sabc's Wilton Plant, built in 1979. The plant produces the essential chemical building blocks for everyday items from toothbrushes to TV's and car parts, a key facility for the UK chemical industry.

Cidon were appointed by Balfour Beatty to construct the 77,000 cubic metre full containment Ethane tank. The tank comprised of a 67-metre diameter and 1-metre-thick base. Additionally, it had 34-metre-high circular tapered, post-tensioned walls, topped within a 3-metre-deep ring beam section. The structure was finished with a 500mm thick domed concrete roof, constructed over an air risen support structure.

Ethane, a by-product of fracking, is imported from the USA to Port Clarence. This product will be pumped and retained in the 65m diameter concrete tank. The facility was designed to be a major factor to prepare the way for the UK to become self-sufficient in generating its own reliable supply of raw materials for the sector



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## UNIQUE FEATURES

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- The tank is the largest of its kind in Europe.
- 77,000 cubic meter full containment Ethane tank.
- 34-metre-high circular tapered post-tensioned walls.
- 500mm thick domed concrete roof constructed over an air risen support structure.
- 52m concrete pump required for walls.